

510(k) Summary

Bionc Implants Inc.'s

ThermoFX Mesh Bioabsorbable Fixation Plate

Submitter's Name, Address, Telephone Number, and Contact Person

Bionx Implants, Inc.

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Bionx Implants Ltd.

Tuija Annala

Quality Manager

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Finland

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Date prepared:

November 15th, 2000

Name of the Device: ThermoFX Mesh Bioabsorbable Fixation Plate

Common or Usual Name:

Bioabsorbable Craniofacial Bone Plate

Classification Name: Bone Plate (Product Code 76 JEY)

Predicate Devices:

1. Bionx Implants, Inc. BioSorbFXTM 1.5/2.0 Bioabsorbable Fixation System

("BioSorbFXTM 1.5/2.0 System") (K982139)

2. Walter Lorenz Surgical, Inc. LactoSorb® Trauma Plating System (K974309,

K971870, K960988)

3. Bionx Implants, Ltd. BioSorbPDX System (K000836)

4. MacroPore, Inc. MacroPore Protective Sheet (K972913, K983360)

Intended Use

ThermoFX Mesh is intended for use in trauma and reconstructive procedures in the

midface and craniofacial skeleton. Specifically, the device is indicated for use in

treating fractures of the craniofacial skeleton, including, but not limited to,

comminuted fractures of the nasoethmoidal and infraorbital areas; comminuted

fractures of the frontal sinus wall; orbital floor fractures; trauma of the midface or

craniofacial skeleton and reconstructive procedures of the midface or craniofacial

skeleton.

ThermoFX Mesh is not intended for use in and is contraindicated for: 1) the

mandible; 2) full load bearing procedures; 3) areas with active infection; or 4) patient

conditions, including blood supply limitations, insufficient quantity or quality of bone

or latent infections.

2

Device Description and Principles of Operation

ThermoFX Mesh consists of a series bioabsorbable plates with thickness of and dimensions of .The countersunk holes in the plates are sized to be secured to the midface or craniofacial skeleton with bioabsorbable fasteners.

Properly used, in the presence of adequate immobilization, absorbable ThermoFX Mesh implants maintain accurate alignment of bone fracture after open reduction.

Technological Characteristics and Substantial Equivalence

As noted above, ThermoFX Mesh is provided with two alternative raw materials, made of polylactide-glycolide copolymer and poly-L/DL-lactide copolymer. These raw materials are the very same than used in the previously cleared BioSorbPDX System (K000836) and LactoSorb® Trauma Plating System ("LactoSorb®") (K974309, K971870 and K960988) and BioSorbFXTM 1.5/2.0 System (K982139) and MacroPore Protective Sheet (K972913, K983360).

Bionx Implants Inc., ThermoFX Mesh, BioSorbPDX System (K000836), BioSorbFXTM 1.5/2.0 Bioabsorbable Fixation System (K982139), Walter Lorenz Surgical, Inc. LactoSorb® Trauma Plating System (K974309, K971870 and K960988) and MacroPore Inc. MacroPore Protective Sheet (K972913, K983360) have the same intended use and principles of operation and very similar design characteristics. The minor technical differences between ThermoFX Mesh and the predicate devices do not raise any new questions of safety or effectiveness.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

FEB - 7 2001

Mrs. Tuija Annala Quality Manager Bionx Implants, Limited Herminakatu 6-8 L Tampere, FINLAND

Re: K003757

Trade Name: Thermofx Mesh Bioabsorbable Fixation Plate

Regulatory Class: II Product Code: JEY

Dated: November 28, 2000 Received: December 6, 20000

Dear Mrs. Annala:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Current Good Manufacturing Practice requirements, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic QS inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does

not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4692. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsma/dsmamain.html".

Sincerely yours,

Timothy A. Ulatowski

Director

Division of Dental, Infection and General Hospital Devices Office of Device Evaluation Center for Devices and Radiological Health

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INDICATIONS FOR USE

510(K) Number (if known): <u>400 375 7</u>

Device Name:	ThermoFX Mesh Bioabsorbable Fixation Plate
Indications for Use:	
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Concurrence	
Division Sign-off	
•	ction Control, and General Hospital Devices
510(k) Number	
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Prescription Use	OR Over-The-Counter Use
(Per 21 CFR 801.109)	
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